

Information
Storage
Systems, Inc.

714
DISK
STORAGE
DRIVE

ISS

(equiv. to 2314 unit)

17K/unit



ISS 714 DISK STORAGE DRIVE

The ISS Model 714 Disk Storage Drive is designed to give computer users the first suitable alternate to the IBM 2314. In addition to offering total 2314 *compatibility*, the Model 714 is available for use with all modern computer systems. The 714 provides new dimensions in *performance* and *reliability* for on-line mass storage.

The Model 714 uses the 11-high 2316 (or equivalent) Disk Pack as the storage media.

Fast Access Time

The 714's performance is made possible by a closed-loop servo system which controls an electro-magnetic actuator. This technique makes maximum use of solid state electronics for accessing and positioning — the design has no gears, no hydraulics, and no detent.

The access times of the ISS Model 714 compared to the 2314's are:

	ISS 714	IBM 2314-1	IBM 2314-A1
Min.	10 ms	25 ms	25 ms
Aver.	32 ms	75 ms	60 ms
Max.	60 ms	135 ms	130 ms

Start-up Performance

Fast start-up increases system throughput. The 714 features a 20 second start-up while the former industry standard 2314 requires 60 seconds. The 714's stop time is a quick 20 seconds.

Compatibility

The 714 is available as a 2314 compatible device. Pack compatibility and System 360 software compatibility are ensured with the 714. Differences are in measured performance.

Reliability

Reliability means dependability in the Model 714. This reliability is achieved through maximum use of electronics and soundness of engineering design. These features mean greater reliability and longer drive life.

Particular attention has been given to the head-disk relationship, a key factor in disk drive performance. The 714 controls head attitude throughout the load/unload cycle, thus providing protection to the disk pack and contributing to reliable operation. The drive uses disk brushes during startup and special air filters to maintain disk pack cleanliness. This cleanliness

results in improved data integrity, longer pack life, and greater drive dependability.

Service

The 714 contains automatic self-monitoring circuits. These circuits plus ISS's special diagnostic unit allow rapid disk drive checkout and greater drive availability to the user.

User Benefits

The 714 provides more dollar value to computer users than any similar-type disk drive. Substantial improvements in system throughput are provided over other obsolete designs.

Data Processing Managers appreciate the 714's overall performance. Planning is easier and schedules are more realistic. Operators are more productive.

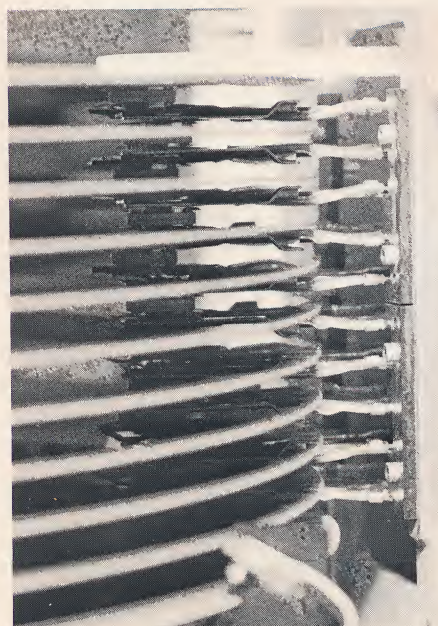
Programmers and Systems Engineers are impressed with the 714's rapid access time. No longer is organization of data on many drives so crucial. Drive assignments become easier.

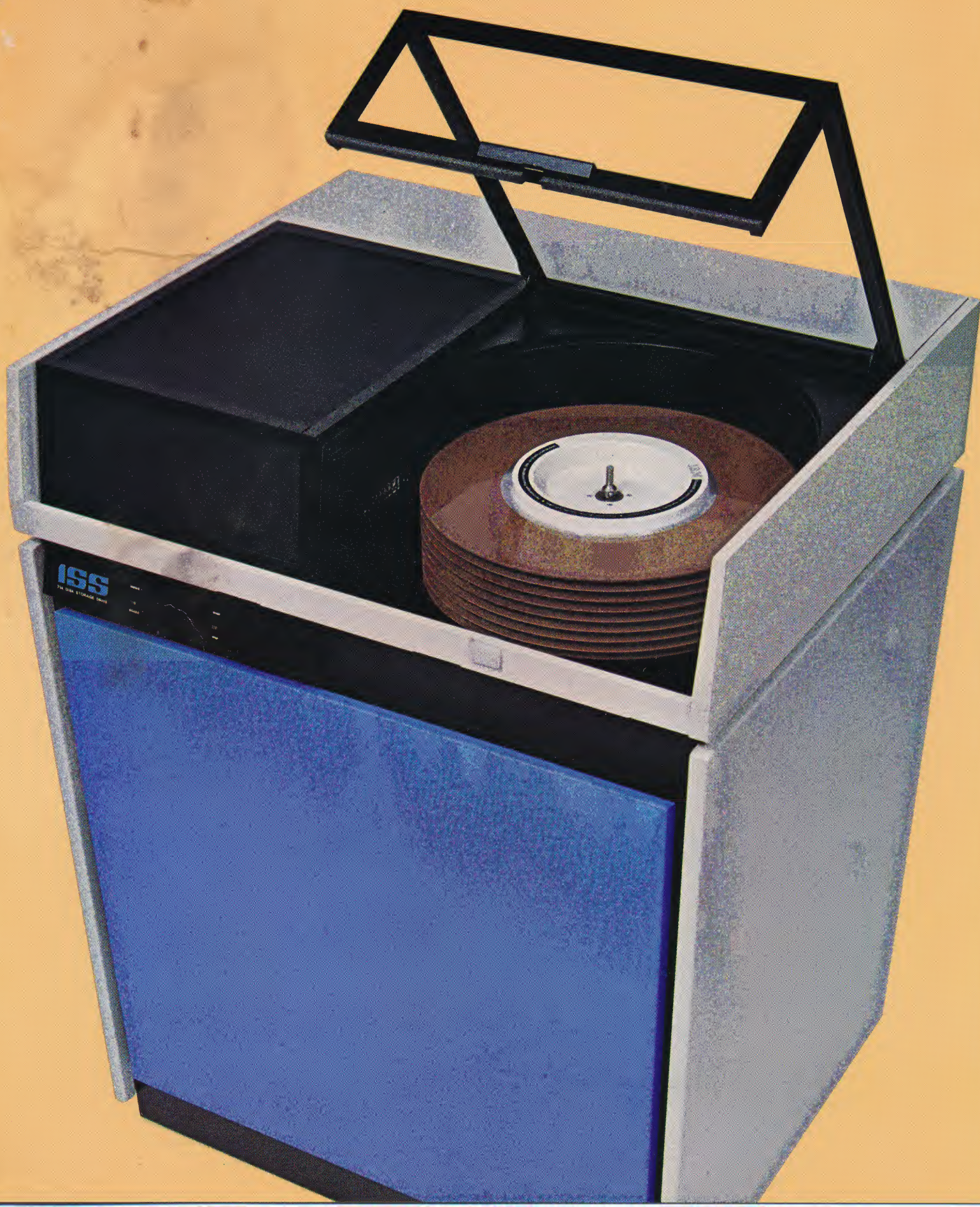
Service Engineers appreciate the design of the 714. The diagnostic unit and ease of head alignment make his time more useful.

Computer Operators welcome the flexibility to make unit assignments with the module select feature. The fast start-up and stop times mean less idle time.

The Model 714 provides many features for many people. Together, they mean *better performance* for your computer system and *more value* to your *data processing dollar*.

Disk Storage Devices Using Tomorrow's Technology Today





Specifications

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DISK
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Access Time	
Track-to-Track:	10 ms
Average:	32 ms
Maximum:	60 ms
Start Up Time:	20 sec
Storage Capacity:	29 million bytes
Disk Speed:	2400 rpm
Number of Heads:	20
Number of Disk Surfaces:	20
Data Transfer Rate:	312,000 bytes/sec
Operating Environment:	60° to 90°F, 8% to 80% RH